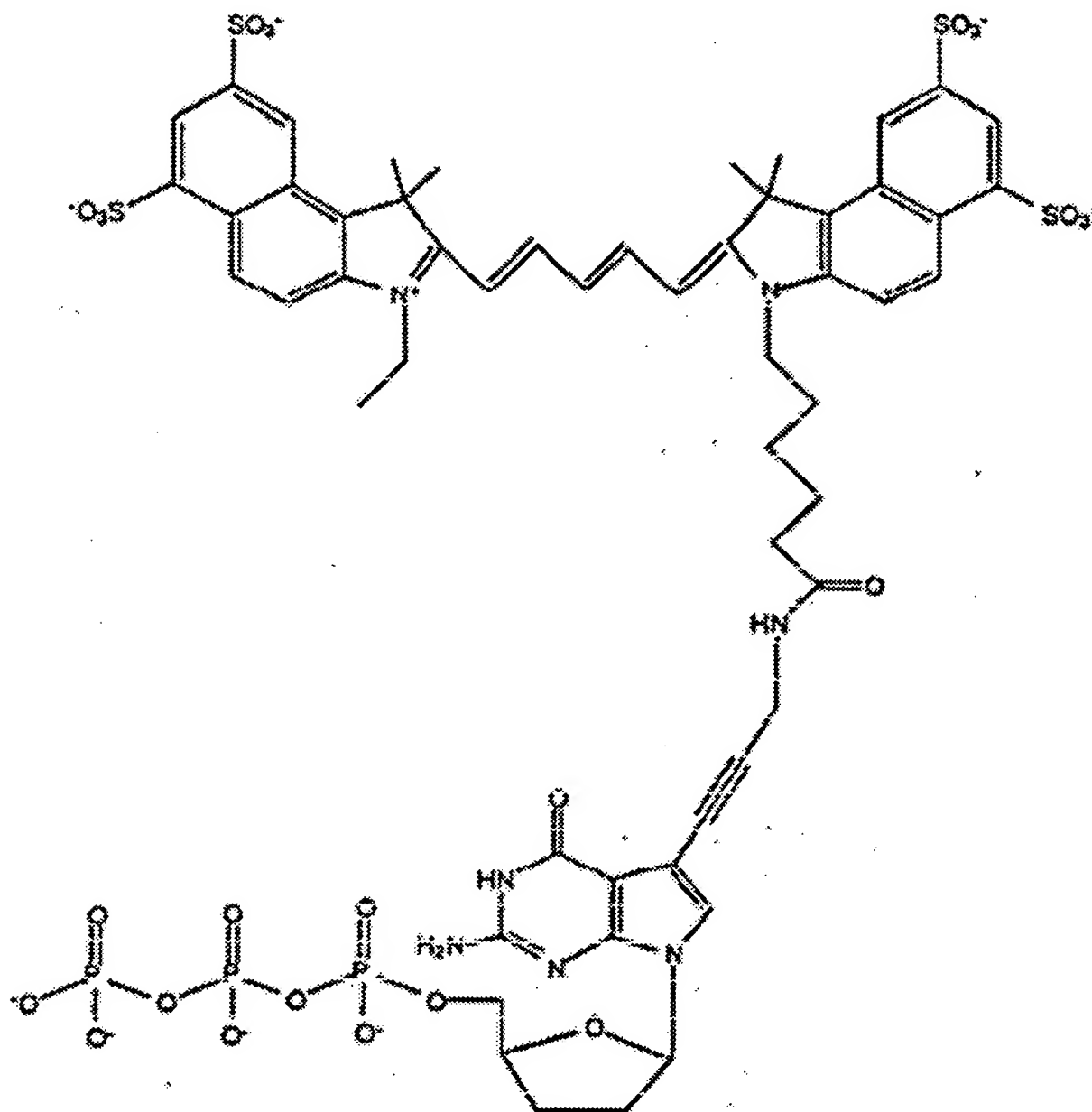


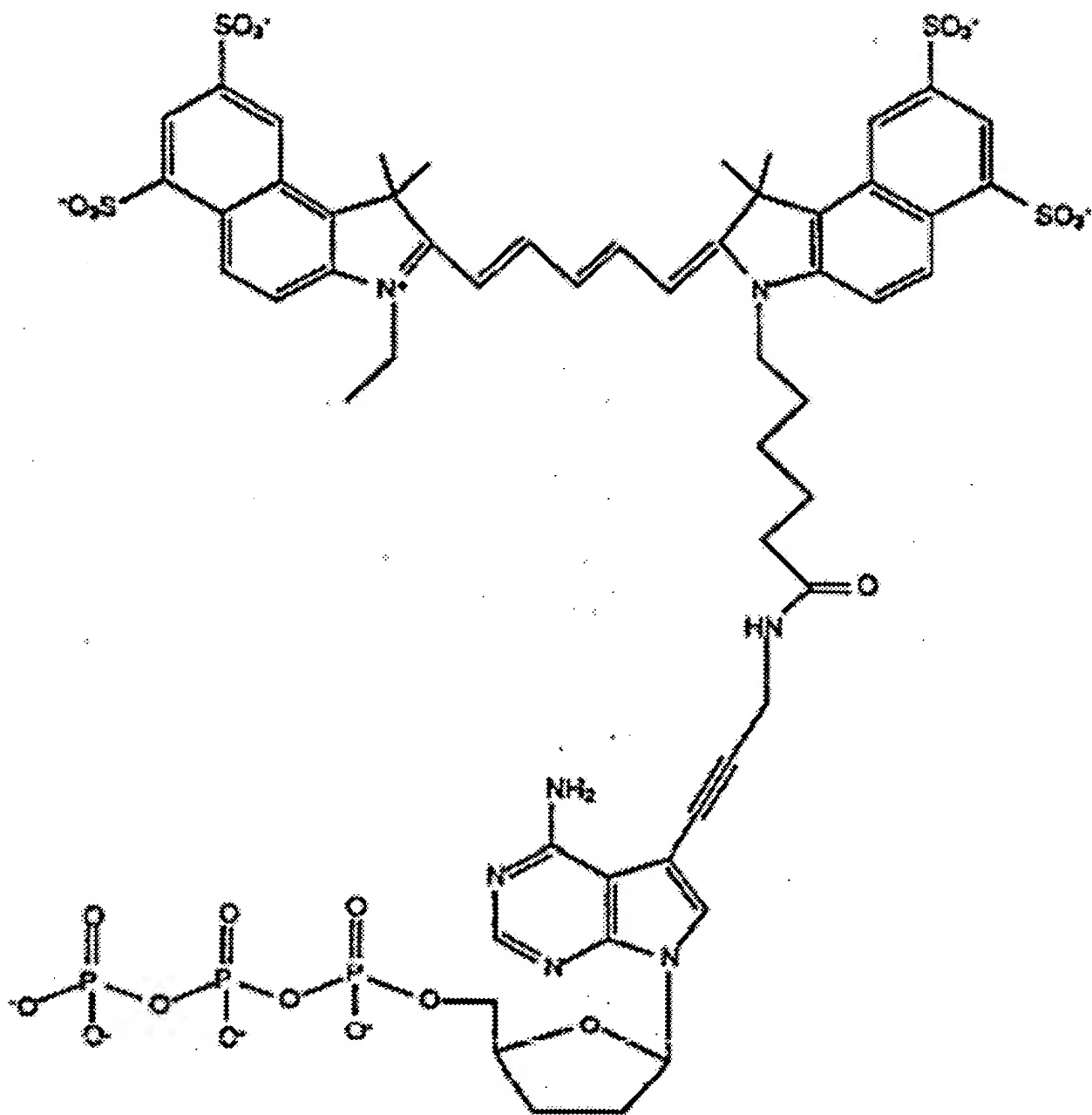
DIDEOXY DYE TERMINATORS

Allowed Claims

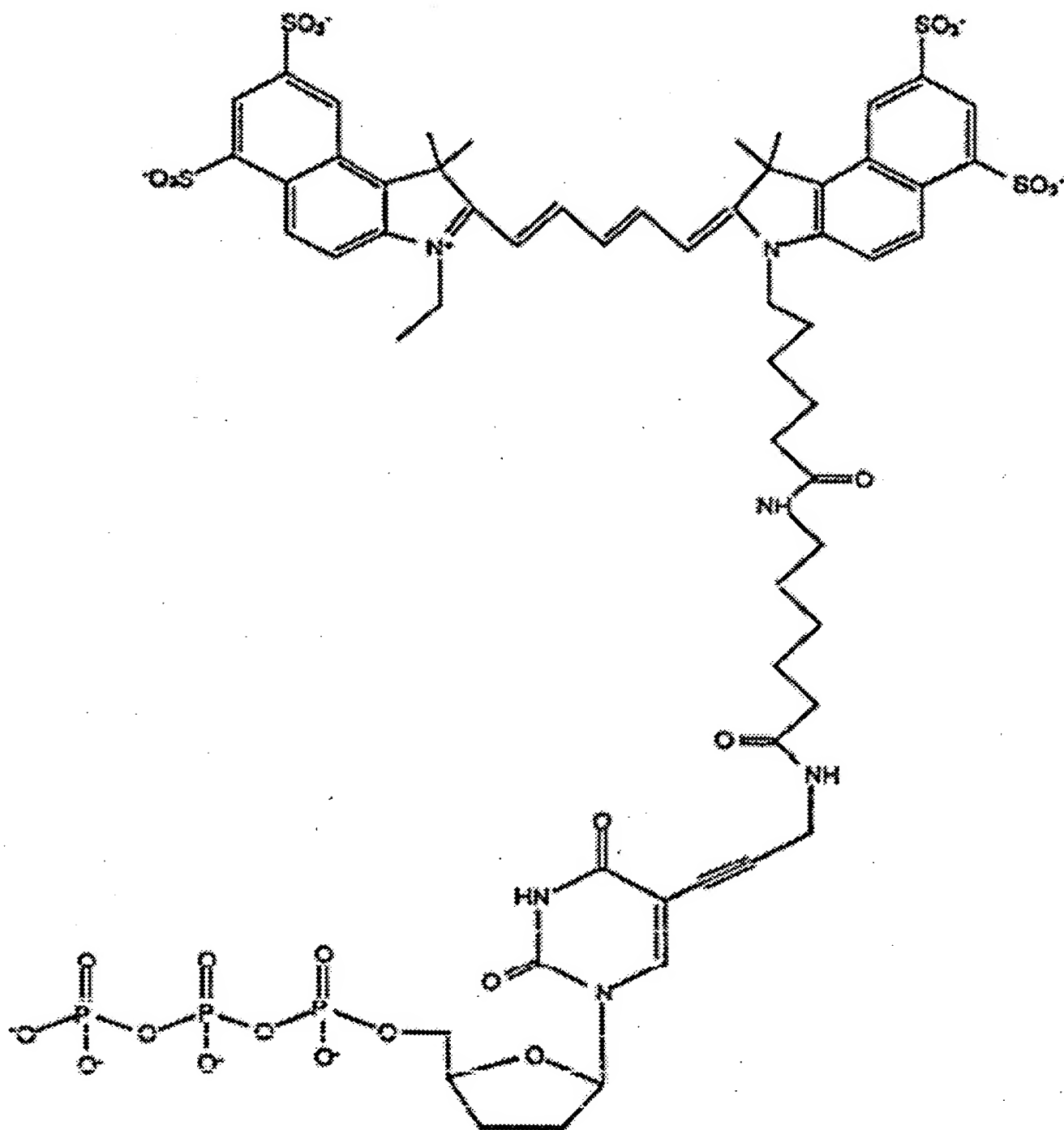
5. A compound of the formula (II):



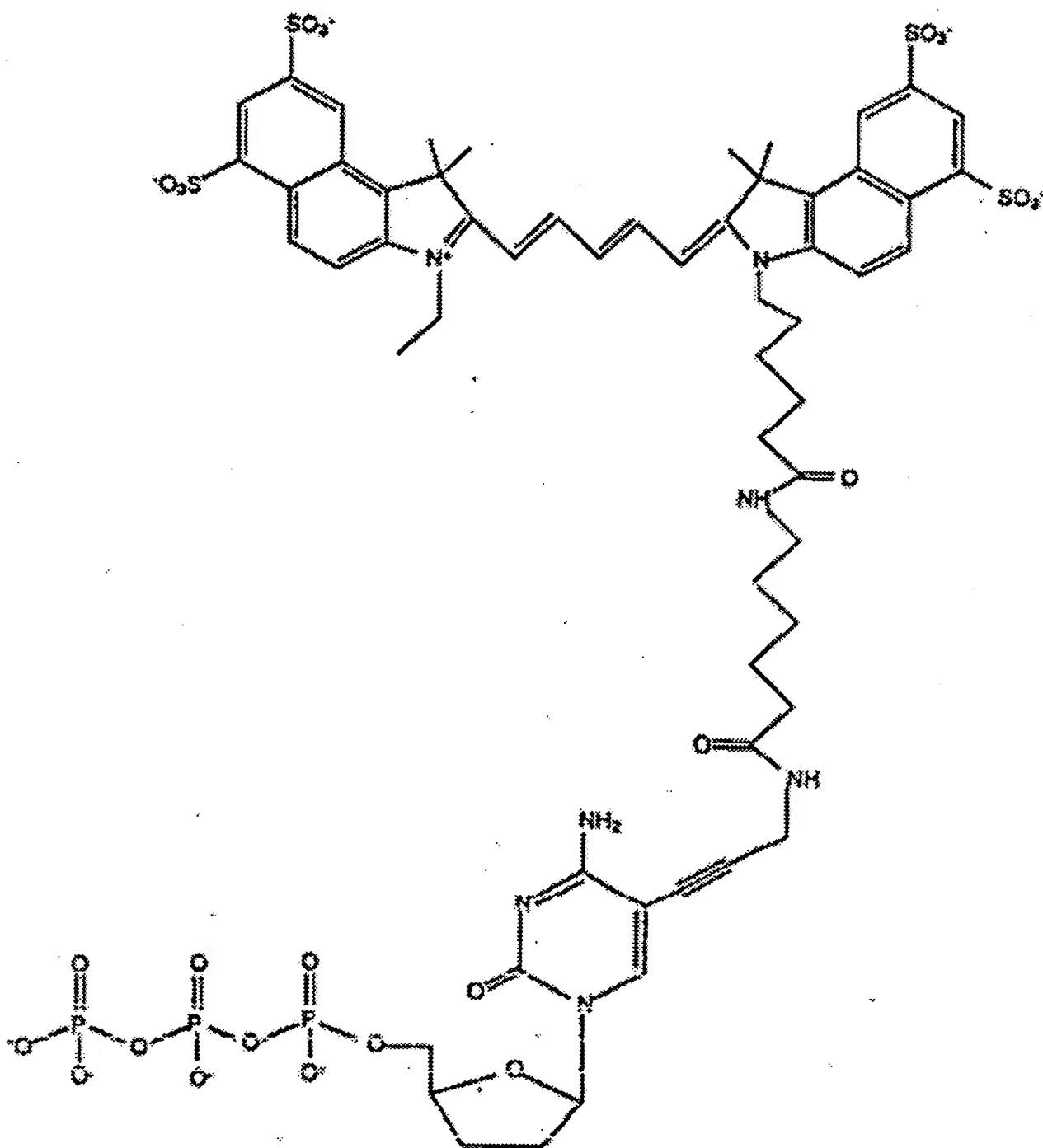
6. A compound of the formula (III):



7. A compound of the formula (IV):



8. A compound of the formula (V):

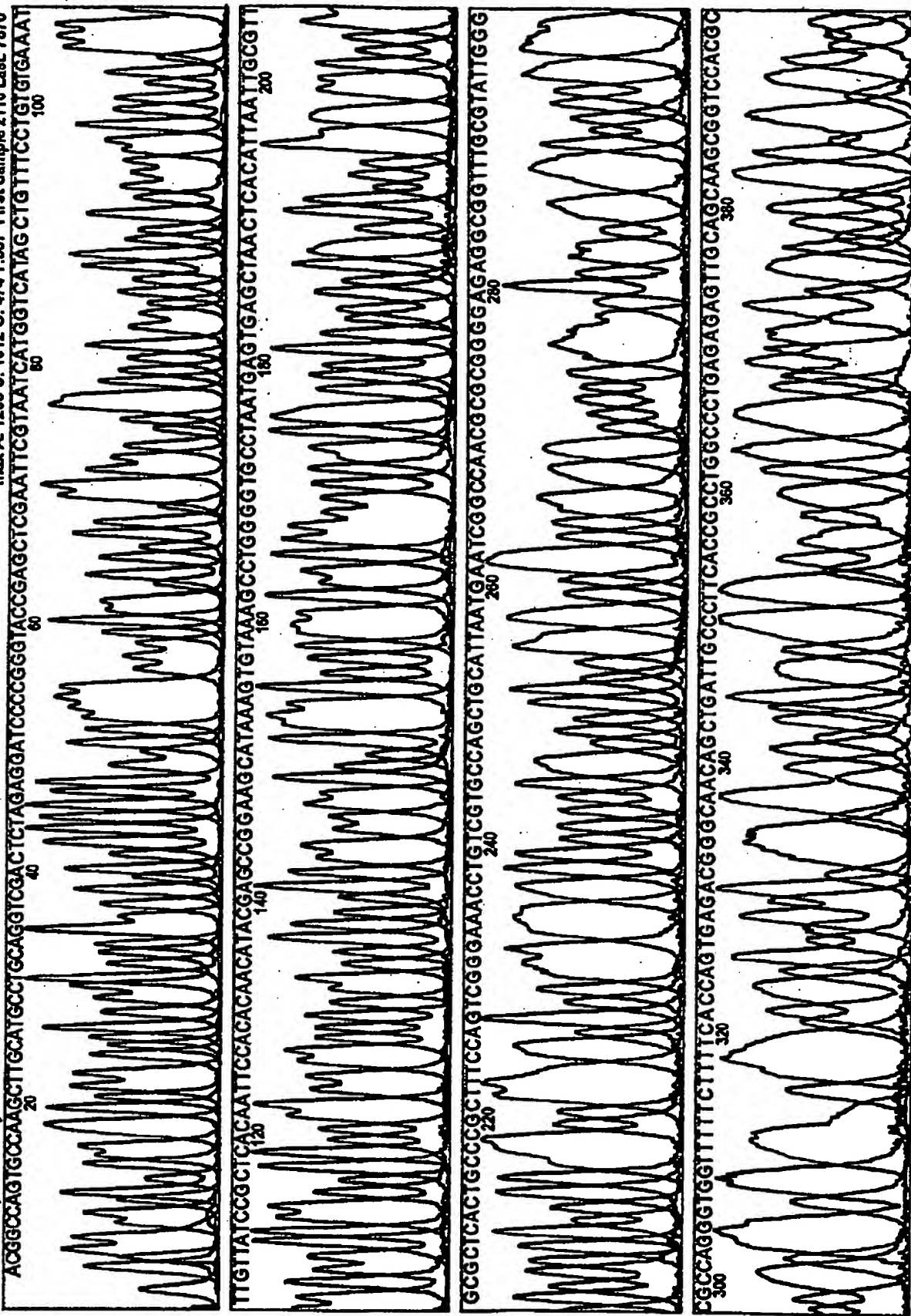


10. A deoxyribonucleotide sequence containing a compound of formula II, III, IV, or V.
11. A kit for DNA sequencing comprising compounds of formula II, III, IV, and V.
12. The kit of claim 11, further comprising a thermostable DNA polymerase.
13. The kit of claim 12, wherein said polymerase is a thermostable DNA polymerase that has an altered dNMP binding site so as to improve the incorporation of dideoxynucleotides relative to the natural polymerase.

Figure 1

50 fmol M13mp18 DNA Cys5.5 Terminator dGTP

max A: 1205 C: 1012 G: 474 T: 537 First Sample 2110 Last: 7870



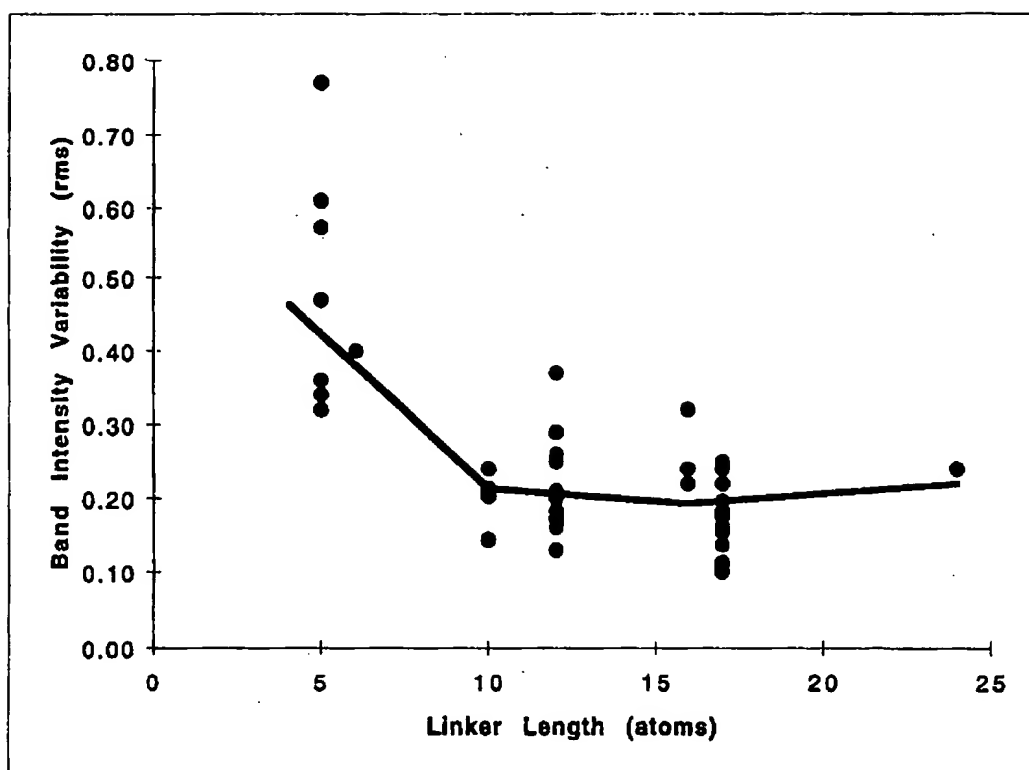


FIGURE 2